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West Coast
Region

Snake River Fall Chinook Recovery Plan Update

November 12, 2014

Discussion Topics

Update on Status of Plan

Notes on Specific Sections

- Recovery goals
- Alternative viability scenarios
- Current status assessment
- Recovery strategy

Status of Plan

- Presently in review and discussions with tribes and fine tuning
- December 2014: Review draft distributed to RCG
- January 2015: CRITFC meeting
- January 2015: U.S. v. OR Policy Committee
- January 2015: Comments back from RCG
- February 2015: Post proposed plan to Federal Reg.

Status of Chapters

1. Introduction – posted
2. Background – posted
3. Recovery Goals and Delisting – in Dec. 2014 draft
4. Status Assessment – in Dec. 2014 draft
5. Threats and Limiting Factors – posted
6. Recovery Strategy; Site Specific Mgmt Actions – posted
7. R,M&E Framework – in Dec. 2014 draft
8. Implementation and Coordination – in Dec 2014 draft
9. Cost Estimates – will be in progress 2014

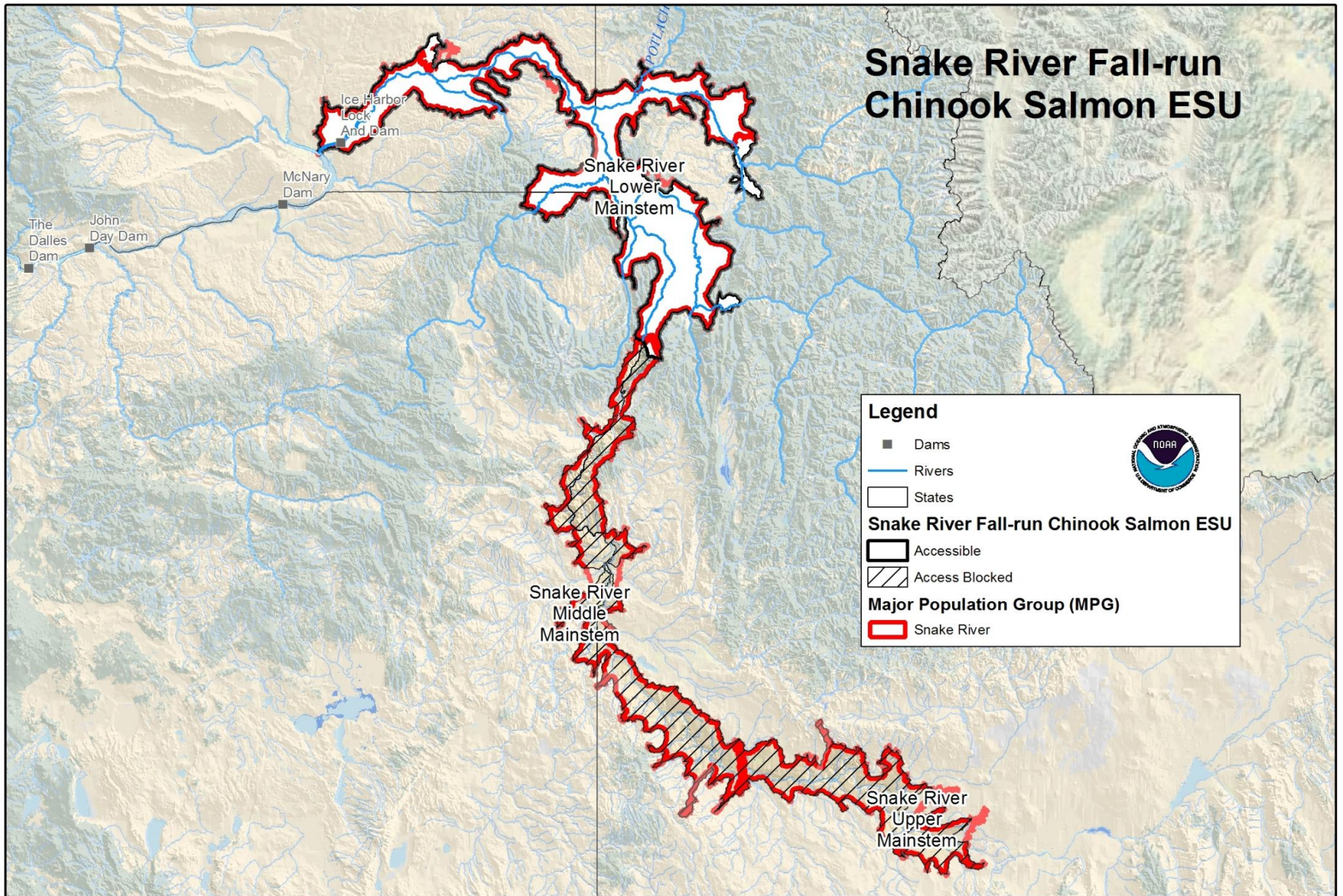
Recovery Goals

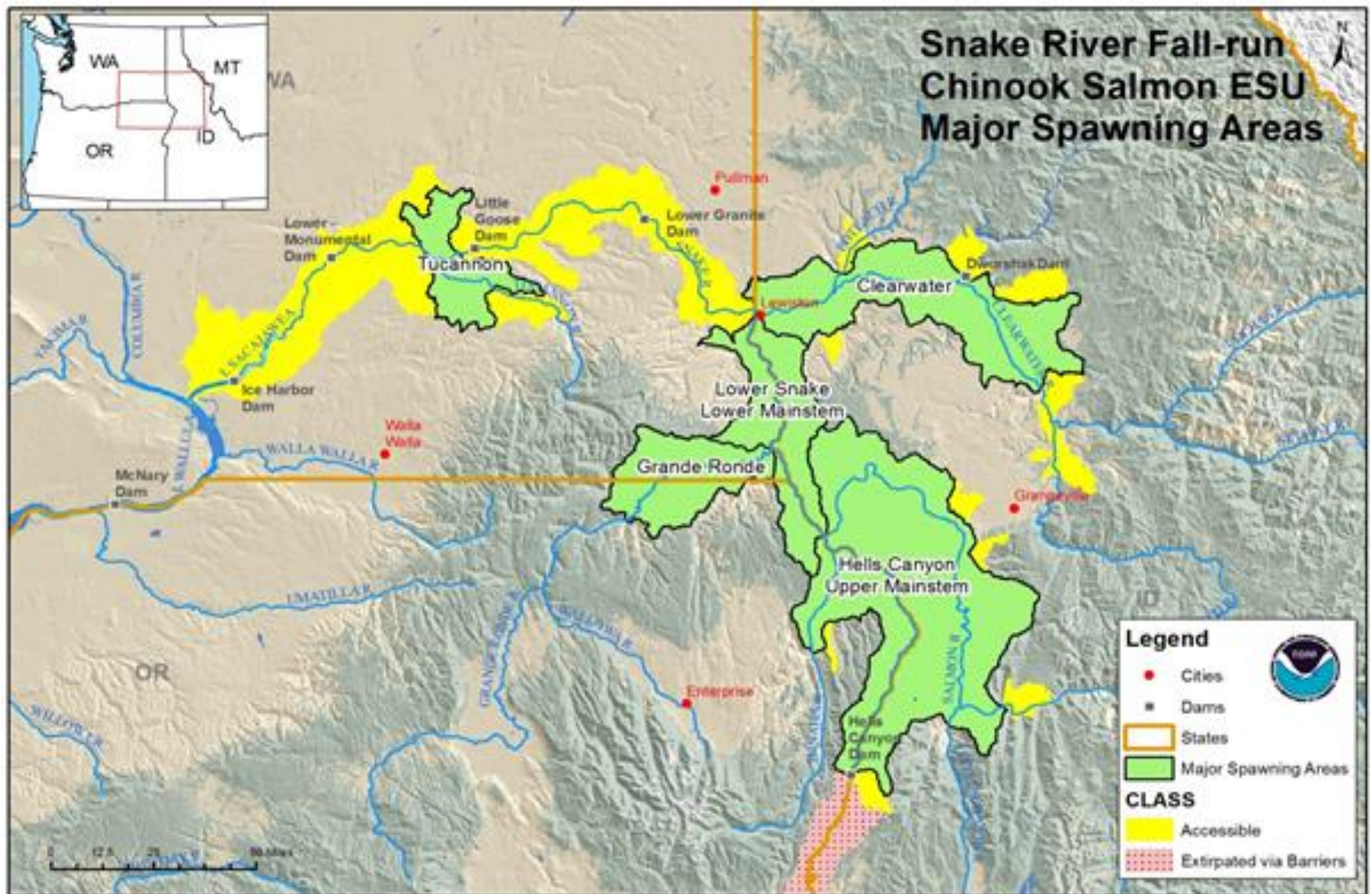
ESA: To ensure that the ESU is self-sustaining and no longer needs the protection of the ESA.

Broad Sense: typically provided by stakeholders and addresses natural production beyond ESA minimums.

➤ Mitigation objectives, if can meet in a manner consistent with recovery of naturally spawning populations.

Treaty Reserved Rights and Tribal Harvest – Both ESA and broad sense goals should support tribal harvest.





Alternative Viability Scenarios

Scenario A. At least two populations: one highly viable, the other viable, includes a population above Hells Canyon.

Scenario B. One population: highly viable with high certainty. Naturally produced fish well distributed and measured in the aggregate, across ESU.

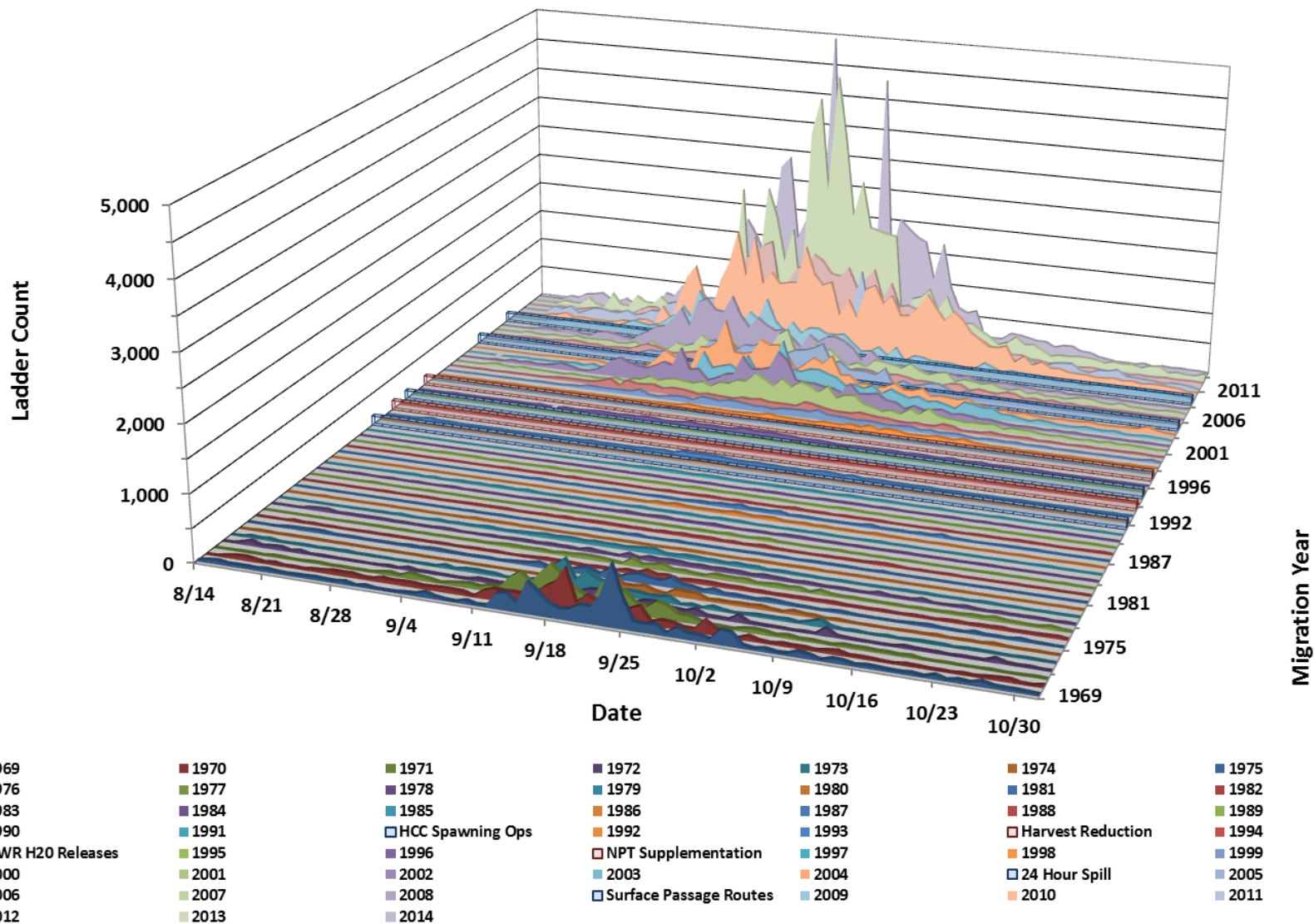
Scenario C. One population: highly viable with high certainty. Substantial proportion of natural production from prioritized spawning areas.

Species Status:

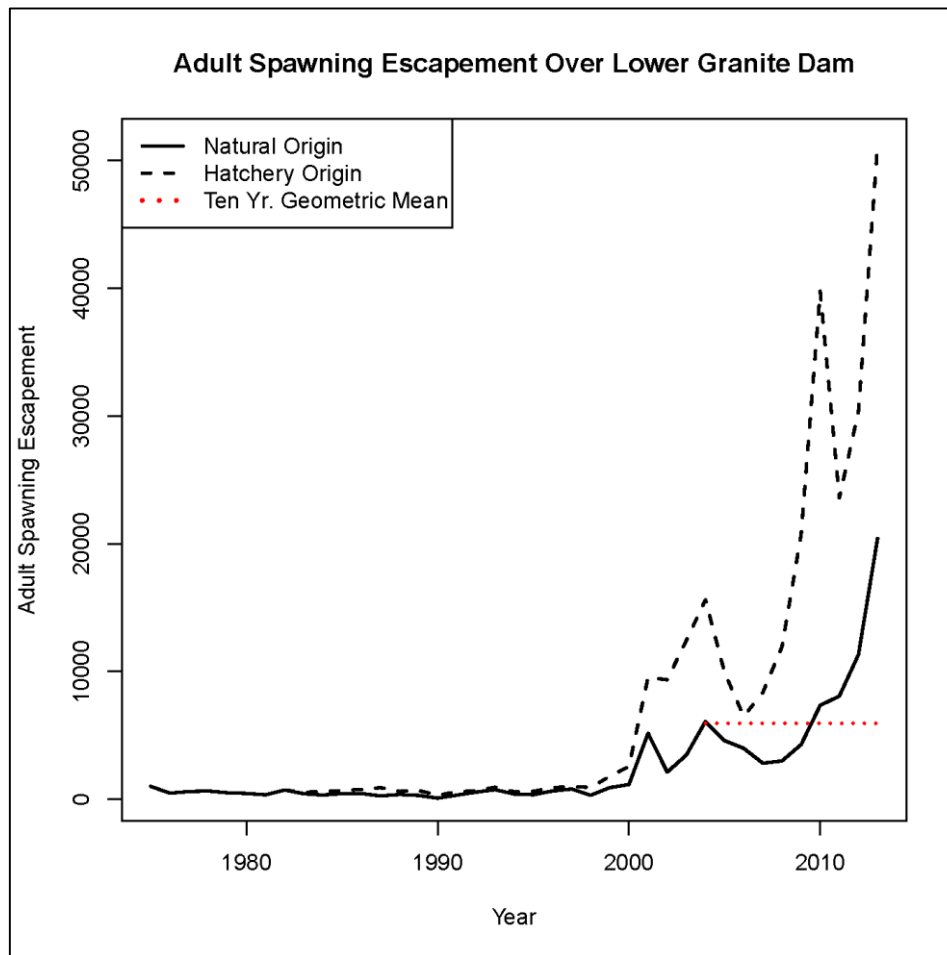
Some Key Questions for Evaluating SR fall Chinook Status

- What is the biological status of the population(s) vs VSP objectives?
- Are habitat conditions sufficient to provide for a self sustaining ESU?
 - Includes spawning/rearing habitats, FCRPS and Idaho Power Company influences
- Would the ESU sustain itself in the absence of supplementation?
- Are management controls in place to sustain viability?

**Adult Fall Chinook Salmon Ladder Counts at the Uppermost Lower Snake River Dam:
Lower Monumental (1969), Little Goose (1970-1974), and Lower Granite (1975-2014).**



Abundance



Spawner estimates for run years 1991 to 2013

Current Status Assessment

- **Abundance & Productivity – Moderate Risk**
 - 10 year geo mean 5,942; productivity about 1.53
 - Scenario B needs > 4,200; and productivity > 1.7
 - Scenario C needs sensitivity analysis, would be a range
 - Uncertainty for maintaining high numbers in long run (i.e. productivity)

- **Spatial Structure Diversity – Moderate Risk**
 - Phenotypic traits
 - Genetic homogeneity
 - High proportion and wide distribution of hatchery origin spawners

Status Assessment

		Spatial Structure / Diversity Risk			
		Very Low	Low	Moderate	High
Abundance / Productivity Risk	Very Low (<1%)	Highly Viable	Highly Viable	Viable	Maintained
	Low (1-5%)	Viable	Viable	Viable	Maintained
	Moderate (6-25%)	Maintained	Maintained	Maintained Lower Mainstem Snake Population	High Risk
	High (>25%)	High Risk	High Risk	High Risk	High Risk

Recovery Strategy

- **Protect and Improve existing population status**
- **Pursue full range of viability scenarios**
 - Actively pursue second population above Hells Canyon
 - Protect gains and
 - Address all H protective and restorative actions in concert
 - Address Key Information Needs: e.g. evaluate relative contributions across life cycle
- **Adaptive Management and Implementation:**
evaluate, prepare and implement changes that could lead to delisting.